

IN THE CLAIMS:

1-2. (Canceled)

3. (Currently Amended): A liquid crystal display panel ~~according to claim 2~~, comprising:

a transparent first substrate;

a transparent second substrate;

a liquid crystal layer sandwiched between said transparent first and second substrate;

a plurality of segment electrodes on said first substrate; and

an opposite electrode on said second substrate,

wherein said display displays by a change in a state of transmission, scattering or absorption of light which is made incident on said liquid crystal layer, caused by selectively applying voltage to said liquid crystal layer by means of said segment electrodes and said opposite electrode,

wherein an auxiliary electrode is provided around each of said segment electrodes on said first substrate with a first slight gap intervening between said segment electrode and said auxiliary electrode,

wherein a first overlap between said opposite electrode and said segment electrode forms a pixel area, and a second overlap between said opposite electrode and said auxiliary electrode forms a background area,

wherein a plurality of segment electrode terminals for individually applying external signals to said plurality of segment electrodes, and wiring electrodes for connecting said segment electrode terminals and said segment electrodes, respectively, are provided on said first substrate,

wherein said auxiliary electrode is provided with a second slight gap intervening between said auxiliary electrode and said wiring electrode, and overlaps between said opposite electrode and said wiring electrodes also form said background area, and

wherein the second slight gap between said wiring electrode and said auxiliary electrode on said first substrate is smaller than the first slight gap between said segment electrode and said auxiliary electrode.

4. (Original): A liquid crystal display panel according to claim 3,

wherein at least a portion of said wiring electrode with a gap formed between said wiring electrode and said auxiliary electrode is a thin wire electrode portion having a width that is same as or smaller than that of the gap.

5. (Original): A liquid crystal display panel according to claim 4,

wherein said wiring electrode outside an outer periphery of said background area is a thick wire electrode portion having a width larger than that of said thin wire electrode portion.

6. (Original): A liquid crystal display panel according to claim 5,

wherein a portion of an outer peripheral portion of said auxiliary electrode close to said thin wire electrode portion protrudes to be close to said thick wire electrode portion of said wiring electrode to form a gap between the protruding portion and said thick wire electrode portion, which is smaller than a gap between the protruding portion and said thin wire electrode portion.

7. (Original): A liquid crystal display panel according to claim 6,

wherein said thick wire electrode portion of said wiring electrode has a connection side portion for connecting said thin wire electrode portion and said segment electrode terminal and an extending portion extending to the opposite side to the portion, and a gap between the protruding portion of said auxiliary electrode and said extending portion is smaller than a gap between the protruding portion of said auxiliary electrode and said connection side portion.

8-10. (Canceled)

11. (Currently Amended): A liquid crystal display panel ~~according to claim 8~~, comprising:

a transparent first substrate;

a transparent second substrate;

a liquid crystal layer sandwiched between said transparent first and second substrates;

a plurality of segment electrodes on said first substrate; and

an opposite electrode on said second substrate,

wherein said display displays by a change in a state of transmission, scattering or absorption of light which is made incident on said liquid crystal layer, caused by selectively applying voltage to said liquid crystal layer by means of said segment electrodes and said opposite electrode,

wherein an auxiliary electrode is provided between said each segment electrode and around said segment electrodes on said first substrate to overlap peripheral portions of said segment electrodes, and said auxiliary electrode is electrically insulated from said each segment electrode by a transparent insulating film which is provided between said auxiliary electrode and said segment electrode,

wherein a first overlap between said opposite electrode and said segment electrode forms a pixel area, and a second overlap between said opposite electrode and said auxiliary electrode forms a background area, and

wherein said auxiliary electrode is formed directly on said first substrate, said insulating film is formed on said first substrate within opening portions in said auxiliary electrode and at least on peripheral portions of said opening portions in said auxiliary electrode, and said segment electrodes are formed on said insulating film.

12. (Currently Amended): A liquid crystal display panel according to claim 11, wherein said segment electrode and said insulating film are in a same planar pattern.

13-14. (Canceled)

8 15. (Currently Amended): A liquid crystal display panel including a liquid crystal layer sandwiched between transparent first and second substrates, and a plurality of segment electrodes on said first substrate and an opposite electrode on said second substrate respectively, and performing a display by a change in a state of transmission, scattering or absorption of light which is made incident on said liquid crystal layer, caused by selectively applying voltage to said liquid crystal layer by means of said segment electrodes and said opposite electrode,

1 wherein an auxiliary electrode is provided around said each of segment electrode electrodes on said first substrate with a slight gap intervening between said segment electrode and said auxiliary electrode, ~~said auxiliary electrode is formed of same transparent conductive film as that of said segment electrodes,~~

wherein ~~an~~ a first overlap between said opposite electrode and said segment electrode forms a pixel area, and ~~an~~ a second overlap between said opposite electrode and said auxiliary electrode forms a background area,

wherein a plurality of segment electrode terminals for individually applying external signals to said plurality of segment electrodes, and wiring electrodes for connecting said segment electrode terminals and said segment electrodes respectively are provided on said first substrate, and one end portion of each wiring electrode extends to a region where said segment electrode is formed,

wherein a transparent insulating film is provided on said first substrate and said each wiring electrode, and said insulating film has an opening portion on said one end portion of said each wiring electrode, and

wherein said each segment electrode and said auxiliary electrode are provided on said insulating film, and said each segment electrode and said each wiring electrode are connected through the opening portion in said insulating film.

16. (Currently Amended): A liquid crystal display panel according to claim 2 ~~3~~, wherein a photovoltaic device to provide voltage between said opposite electrode and said segment electrodes and/or auxiliary electrode is disposed outside said second substrate.

17. (Currently Amended): A liquid crystal display panel ~~according to claim 2, wherein said wiring electrode has a plurality of holes~~ comprising:

10 a transparent first substrate;

a transparent second substrate;

a liquid crystal layer sandwiched between said transparent first and second substrates;

a plurality of segment electrodes on said first substrate; and

an opposite electrode on said second substrate.

wherein said display displays by a change in a state of transmission, scattering or absorption of light which is made incident on said liquid crystal layer, caused by selectively applying voltage to said liquid crystal layer by means of said segment electrodes and said opposite electrode,

wherein an auxiliary electrode is provided around each of said segment electrodes on said first substrate,

wherein a first overlap between said opposite electrode and said segment electrode forms a pixel area, and a second overlap between said opposite electrode and said auxiliary electrode forms a background area,

wherein a plurality of segment electrode terminals for individually applying external signals to said plurality of segment electrodes, and wiring electrodes for connecting said segment electrode terminals and said segment electrodes respectively are provided on said first substrate, and overlaps between said opposite electrode and said wiring electrodes also form said background area,

wherein said wiring electrode has a plurality of holes.

18. (Currently Amended): A liquid crystal display panel according to claim 2 3, wherein said segment electrodes and wiring electrodes are formed of a metal film.

19. (Currently Amended): A liquid crystal display panel according to claim 2 3, wherein said auxiliary electrode is split into a plurality of parts.

20. (Currently Amended): A liquid crystal display panel according to claim ~~2~~ 3, wherein said opposite electrode is split into a plurality of parts.

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21. (Original): A liquid crystal display panel according to claim 20, wherein gaps between said split opposite electrodes and gaps between said plurality of segment electrodes are provided at different positions in a plane view.

22. (New): A liquid crystal display panel according to claim 11, wherein a photovoltaic device to provide voltage between said opposite electrode and said segment electrodes and/or auxiliary electrode is disposed outside said second substrate.

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23. (New): A liquid crystal display panel according to claim 11, wherein said auxiliary electrode is split into a plurality of parts.

24. (New): A liquid crystal display panel according to claim 11, wherein said opposite electrode is split into a plurality of parts.

25. (New): A liquid crystal display panel according to claim 17, wherein a photovoltaic device to provide voltage between said opposite electrode and said segment electrodes and/or auxiliary electrode is disposed outside said second substrate.

26. (New): A liquid crystal display panel according to claim 17, wherein said auxiliary electrode is split into a plurality of parts.

27. (New): A liquid crystal display panel according to claim 17, wherein said opposite electrode is split into a plurality of parts.

28. (New): A liquid crystal display panel according to claim 15, wherein a photovoltaic device to provide voltage between said opposite electrode and said segment electrodes and/or auxiliary electrode is disposed outside said second substrate.

29. (New): A liquid crystal display panel according to claim 15, wherein said segment electrodes and wiring electrodes are formed of a metal film.

30. (New): A liquid crystal display panel according to claim 15, wherein said auxiliary electrode is split into a plurality of parts.

31. (New): A liquid crystal display panel according to claim 15, wherein said opposite electrode is split into a plurality of parts.

32. (New): A liquid crystal display panel according to claim 11, wherein said segment electrodes and wiring electrodes are formed of a metal film.

33. (New): A liquid crystal display panel according to claim 17, wherein said segment electrodes and wiring electrodes are formed of a metal film.

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